



Wastestream Survey

Wastestream 92796 - 1

GENERATOR INFORMATION

Name: WAH CHANG
Address (site): *1600 OLD SALEM ROAD NE ALBANY, OR 97321-0460 UNITED STATES
Address (mail): PAT MACAULEY P O BOX 460 ALBANY, OR 97321-0460 UNITED STATES
US EPA ID: ORD060955848 State ID:
Regulatory Status: LARGE QUANTITY
Technical Contact: FRANK HAMILTON Phone: (541)926-4211
Short Name: WCAO

WASTESTREAM INFORMATION - GENERAL

Common Name: NON FERROUS METAL FINES & METAL RESIDUE
Waste Class: 071 - WATER-REACTIVE, FLAMMABLE METAL POWDERS
Generating Process: MACHINE CONDITIONING
EPA Source Code: G05 - METAL FORMING AND TREATMENT (PICKLING, HEAT TRE...
EPA Form Code: W307 - METAL SCALE, FILINGS AND SCRAP (INCL METAL DRUMS)
Physical State @ 70F: SEMI-SOLID
Odor:
Color:
Density: LB/GAL
Estimated Annual Volume: 200000 LBS
Conditional Approval?: N

MANAGEMENT SYSTEM ASSIGNMENTS

<u>TSD#</u>	<u>Product Code - Desc</u>	<u>Put Away Area</u>	<u>Process System - Desc</u>	<u>Cont Type</u>
15119	8074 SOL MIX NON MYL DRUM	A GENERAL STORAGE	1251 FRONT WALL	DF, DM
15119	8073 SOL MIX METAL DRUM	A GENERAL STORAGE	1251 FRONT WALL	DF, DM

EPA HAZARD CODES

None specified

STATE HAZARD CODES

None Specified



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SAFETY INFORMATION

<u>HMIS Information</u>	<u>Description</u>
HEALTH	1 - SLIGHT HAZARD
FLAMMABLE	2@ - MODERATE HAZARD-WATER REACTIVE
REACTIVE	2 - MODERATE HAZARD
PPE	F2 - DUST RESP-NEOPRENE
* = Carcinogen	
@ = Water Reactive	

COMMENTS

Type Text

IN on hold pending investigation

PE APRON PPE-F2

PI THIS MATERIAL NEEDS PACKAGED IN 400 LB CHARGES WETTED WITH OIL.

IN - INTERNAL

PE - PROTECTIVE EQUIPMENT

PI - PROCESS INSTRUCTION

TRANSPORTATION INFORMATION

Shipping Description: RQ, UN3178, FLAMMABLE SOLID, INORGANIC, N.O.S., 4.1, PGIII, (HAFNIUM, ZIRCONIUM), ERG#133

Label Codes: 4.1 - FLAMMABLE SOLID

COMMENTS

Type Text

LM NO SAMPLE REQD

LM - LABEL-MESSAGE

SURVEY RESPONSES

PHYSICAL AND CHEMICAL PROPERTIES.

<u>Question</u>	<u>Reply</u>	<u>Question</u>	<u>Reply</u>
Flash Point	140 to <200	Boiling Point	>100
BTU/LB, range, low value	3000	BTU/LB, range, high value	8000
PH, range, low value	3	PH, range, high value	12
Is the waste pumpable?	NO	Will heat improve the flow?	NO
Is this a dust hazard?	NO		

ADDITIONAL HAZARDS.

<u>Question</u>	<u>Reply</u>	<u>Question</u>	<u>Reply</u>
Air Reactive	NO	Asbestos	NO
Carcinogen	NO	Gas	NO
Dioxins, Furans, or pre-cursors	NO	Explosive	NO



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ADDITIONAL HAZARDS.

<u>Question</u>	<u>Reply</u>	<u>Question</u>	<u>Reply</u>
Infectious Agents	NO	Lab Pack	NO
Oxidizer	NO	Pyrophoric	NO
Radioactive	NO	Shock Sensitive	NO
Water Reactive	YES		

ADDITIONAL REGULATORY INFORMATION.

<u>Question</u>	<u>Reply</u>	<u>Question</u>	<u>Reply</u>
PCBs ? (If Yes, specify range)	NO	Subject to Benzene NESHAP controls (40CFR61.340-358) ?	Not Applicable

WTI

<u>Question</u>	<u>Reply</u>	<u>Question</u>	<u>Reply</u>
Miscellaneous Special Waste	YES		



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CHEMICAL CONSTITUENTS

Using specific chemical names, list all constituents present in the wastestream. Attach available analyses or Material Safety Data Sheets (MSDSs). Total composition must equal or exceed 100%.

		TYPE - GENERATOR				CAS#	EHS ID#	Date
Constituents		Range	Result	Units				
METAL RESIDUE/METAL FINES	CONTAINING:	94 - 99		PERCENT				11-JAN-01
CUTTING OIL		1 - 4		PERCENT				11-JAN-01
HAFFNIUM		10 - 25		PERCENT	7440-58-6			11-JAN-01
NIOBIUM		10 - 25		PERCENT				11-JAN-01
TITANIUM		10 - 25		PERCENT	7440-32-6			11-JAN-01
WATER		0 - 2		PERCENT				11-JAN-01
ZIRCONIUM		45 - 65		PERCENT	7440-67-7			11-JAN-01

EHS - Extremely Hazardous Substance

CAS - Chemical Abstracts Service



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CONSTITUENT RANGES

<u>Constituents</u>	<u>Range</u>	<u>Result</u>	<u>Units</u>	<u>CAS#</u>	<u>EHS? ID#</u>	<u>Date</u>
ASH %	- 50	60	PERCENT	NA		18-OCT-99
HEAT VALUE	- 8000	8000	BTU/LB	NA		18-OCT-99

EHS - Extremely Hazardous Substance

CAS - Chemical Abstracts Service

JAMS**Heritage-WTI, Inc.
Incident Report****2011.1539**

To be completed by the employee and supervisor
before the end of the shift.

I. Incident Information:

Date: 12/17/2011 **Time:** 13:00
Type: Fire/Explosion
Location: Container Processing Splitting Area

Investigator(s):

Wilde Hamrick
Christine Shorokey
Carrie Beringer
Randy Sadler
Curt Moffett
Keith Moyer
Steve Olesky

Investigators - Manager:

Russ Henry

Investigators - Safety Technician:

Jill Auteri

Investigators - Employee:

Russ Henry
Jim Brinker
Mike Nicholson
Steve Lorah
John Peterka

Investigators - Others:**Attachments:****II. Employee Information:**

Name: Tom Bailey **Job Title:** Safety Service Technician
Department: BOP **Overtime:** Yes ☐ No ☐
Supervisor (GM) on Duty: Russ Henry

If other than VRA

Company Name: _____
Company Address: _____
Company Phone: _____ **Was Company Notified?:** Yes ☐ No ☐

III. Incident Scene Information:

Specific Location: BOP, floor behind splitting platform/alter

PSM Location: ☒ Yes ☐ No

Describe How the Incident Occured:

While splitting profile 92796-1, a violent exothermic reaction initiated a fire that injured two employees. A responder received minor burns during rescue.

Type of Machinery/Equipment/Materials/Waste Involved:

Dalmac, Hand Tools

Waste Stream Profile: 92796-1**Container Number:** _____**Machinery / Equipment Placed:**

Repairs Required

Out of Service

JAMS Work Order Number(s):

Protecto Wire
Dalmao
Vapor Recovery Snorkle
Split Altar Computer
Web Styles
Safety Shower/Eye Wash
Fork Truck
Fire Suppression System
Lighting

IV. Events Causing the Incident:

Describe the events and conditions that contributed to the incident. Include information on the worker, machinery and equipment, environment and management.

Currently under investigation.

V. Corrective Actions:

Identify the factors listed above that can be corrected to prevent a recurrence of this type of accident. Indicate the person responsible for making the change and project a target date for completion of the task.

**** Initial - Corrective Actions:**

Stopped all waste processing and responded to the incident. Resumed limited operations Saturday evening.
Re-evaluated processing restrictions on Monday.

Delayed waste receipts Monday.

Transferring all drums of profile 92796-1 to a van for storage in 90 day north.

Caution taped incident area for limited access and further investigation.

24 hour monitoring of incident area and drums on splitting floor via camera in control room until fire suppression is repaired and automated.

Cancelled all activity on Wah Chang waste streams.

Removed drums in queuing lanes and staged them in the caution taped incident area.

Collected debris and other items that were most likely involved in the incident, bagged it, and set it under lock and key for evaluation at a later date.

**** Long Term - Corrective Actions:**

Yet to be determined.

CPAR Generated:

Yes

☐ No

Responsible Person:

Target Completion Date:

12:00:00 AM

Method of verification of Corrective Action.

Verification Date:

12:00:00 AM

V. Incident Report Prepared by:

Name:

Keith Moyer

Title:

Field Services Manager

Signature:

Keith Moyer

Date:

12/19/2011 1:20:56 PM

VI. Summary:

Include comments that would promote a safe workplace environment and reduce an accidents potential in the future based on review of the events causing the incident and implementation of Corrective Actions.

As a result of a violent exothermic reaction and fire that occurred during the splitting of waste stream 92796-1, three employees were injured and one fatality has occurred as a result of those injuries. The plant has been damaged. Due to safety and other concerns processing has been restricted. An investigation is under way being performed by an internal team, external agencies, and other contracted experts. Counseling is being provided as requested.

Risk Rating: Very High

Category:

VII. Injury Information:

Name of Injured person:

Tom Bailey, John Bechak

Nature of Injury:

Burn

Body Part:

Other

Work Start Time:

5:30:00 AM

Employee's Specific Task and Activity at Time of Injury:

Tom and John were splitting waste stream number 92796-1, 55 gallon steel drums were overpacked in 86 gallon steel drums under oil. Prior to removing the material from the 55s, Tom and John removed the oil using a plastic hand pump. The oil was placed into a lined fiber and solidified in fiber drums with hand tools and vermiculite. Then, the solid material was removed from the inner 55 gallon drum with hand tools and placed in lined fiber drums as well.

Injury Treatment (Click all that are applicable):

☐ Fatality☐ Onsite First Aid☐ Offsite TreatmentELO Hospital, West Penn Burn Unit,
Pitt, PA

Other, Specify:

Drug and Alcohol Testing Done:

Yes

☐ No

N/A

Date and Time:

12:00:00 AM

For Safety Manager:

First Aid

Recordable

Restricted Duty

Loss Work Days

JAMS

Heritage-WTI, Inc.
Incident Report

2011.1539